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=> s CD23
L1 12079 CD23

=> s l1 and binding peptide
L2 1 L1 AND BINDING PEPTIDE

=> d l2 cbib abs

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
2005:1130891 Document No. 143:399818 CD23-binding peptides and peptidomimetics for treatment of autoimmune and inflammatory disorders. Mossalayi, Mohammad Djavad; Moynet, Daniel; Vincendeau, Philippe; Rambert, Jerome; Self, Christopher R. (Universite Bordeaux 2, Fr.). PCT Int. Appl. WO 2005098435 A2 20051020, 59 pp.
DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2.

APPLICATION: WO 2005-IB1133 20050405. PRIORITY: EP 2004-290899 20040405.

AB The invention describes compds. comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compds. of the invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X1-X2- X3-X4-X5-X6-X7-X8, wherein: X1 is Phe, or is absent; X2 is His or Ala; X3 is Glu, Ser, Ala, Asn, Lys, or Cys; X4 is Asn, Phe, Gln, Pro, Ser, or Ala; X5 is Trp; X6 is Pro, Arg, Glu, Gly, Cys, or Lys; X7 is Ser, Pro, Leu, Thr Ala, Gly, Asn, or absent; and X8 is Phe, Gly, or is absent. Treatment of arthritic rats with peptide p30A resulted in remission of the arthritic condition and produced weight gain.

=> s phage display
L3 23469 PHAGE DISPLAY

=> s l3 and CD23
L4 5 L3 AND CD23

=> dup remove l4
PROCESSING COMPLETED FOR L4
L5 5 DUP REMOVE L4 (0 DUPLICATES REMOVED)

=> d l5 1-5 cbib abs

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

2005:1130891 Document No. 143:399818 CD23-binding peptides and peptidomimetics for treatment of autoimmune and inflammatory disorders. Mossalayi, Mohammad Djavad; Moynet, Daniel; Vincendeau, Philippe; Rambert, Jerome; Self, Christopher R. (Universite Bordeaux 2, Fr.). PCT Int. Appl. WO 2005098435 A2 20051020, 59 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2005-IB1133 20050405. PRIORITY: EP 2004-290899 20040405.

AB The invention describes compds. comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compds. of the invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X1-X2- X3-X4-X5-X6-X7-X8, wherein: X1 is Phe, or is absent; X2 is His or Ala; X3 is Glu, Ser, Ala, Asn, Lys, or Cys; X4 is Asn, Phe, Gln, Pro, Ser, or Ala; X5 is Trp; X6 is Pro, Arg, Glu, Gly, Cys, or Lys; X7 is Ser, Pro, Leu, Thr Ala, Gly, Asn, or absent; and X8 is Phe, Gly, or is absent. Treatment of arthritic rats with peptide p30A resulted in remission of the arthritic condition and produced weight gain.

L5 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

2006:137443 Document No.: PREV200600133456. A novel anti CD23 fully human monoclonal antibody potentially useful for B-CLL therapy. Delcommenne, Marc [Reprint Author]; Klingemann, Hans-Georg; Gregory, Stephanie A.. Tufts New England Med Ctr, Div Hematol Oncol, Boston, MA USA. Blood, (NOV 16 2005) Vol. 106, No. 11, Part 2, pp. 343B.

Meeting Info.: 47th Annual Meeting of the American-Society-of-Hematology. Atlanta, GA, USA. December 10 -13, 2005. Amer Soc Hematol.
CODEN: BLOOAW. ISSN: 0006-4971. Language: English.

AB B-cell chronic lymphocytic leukemia (B-CLL) is one of the most common hematological malignancies and is, in most cases, characterized by an increased expression of CD23 on the cell surface. Since cross-linking CD23 induces B-CLL apoptosis, it is an attractive target for B-CLL antibody-based immunotherapy. In this study we show that an anti-CD23 human IgG1 monoclonal antibody, C6F5, may be useful in treating B-CLL. This antibody is derived from the human single chain antibody (scFv) C6F5 that was originally raised against the RPMI-8226 multiple myeloma cell line using the antibody phage display technique. While the C6F5 scFv did not bind to other myeloma cell lines, it was able to bind weakly to normal peripheral blood B lymphocytes and strongly to EBV transformed B cells and B-CLL cells. The antigen recognized by C6F5 was also upregulated on B lymphocytes that had been stimulated by CD40 ligand. Immumoprecipitations by the scFv C6F5 identified a protein of 45 kDa which co-migrated with CD23. Furthermore, this protein was recognized by an anti-CD23 mouse mAb in Western blot analyses. Immunofluorescence staining with the C6F5 scFv was inhibited if cells were preincubated with an anti-CD23 polyclonal antiserum. Taken together, these results verify that C6F5 recognizes CD23. The V. and V, regions of C6F5 antibody were then cloned into a baculovirus transfer vector encoding the human IgG(1) heavy and light chains so that fully human C6F5 IgG(1) antibody could be produced in baculovirus infected SF9 cells. Since C6F5 binding specificity was preserved in the IgG(1) format, this antibody is ready to be tested in in vitro cytotoxic assays against B-CLL cells.

L5 ANSWER 3 OF 5 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN

2005098013 EMBASE Antibody Engineering - IBC's 15th Annual International Conference. 30 November - 3 December 2004, San Diego, CA, USA.
Haurum, John S. (correspondence). Symphogen A/S, Elektrovej, Building 375, DK-2800 Lyngby, Denmark. jh@symphogen.com.
IDrugs Vol. 8, No. 2, pp. 91-93 Feb 2005.
ISSN: 1369-7056. CODEN: IDRUFN
Pub. Country: United Kingdom. Language: English.
Entered STN: 20050317. Last Updated on STN: 20050317

L5 ANSWER 4 OF 5 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN

2004:807448 The Genuine Article (R) Number: 849UH. Isolation of high-affinity human IgE and IgG antibodies recognising Bet v 1 and Humicola lanuginosa lipase from combinatorial phage libraries. Jakobsen C G (Reprint); Bodtger U; Kristensen P; Poulsen L K; Roggen E L. Novozymes AS, Prot Screening, Smoermosevej 11, 6E2-03, 11, DK-2880 Bagsvaerd, Denmark (Reprint); Novozymes AS, Prot Screening, DK-2880 Bagsvaerd, Denmark; Univ Aarhus, Dept Biol Mol, DK-8000 Aarhus C, Denmark; Natl Univ Hosp, Allergy Clin, DK-2100 Copenhagen, Denmark. cgjakobsen@health.sdu.dk. MOLECULAR IMMUNOLOGY (AUG 2004) Vol. 41, No. 10, pp. 941-953. ISSN: 0161-5890. Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND. Language: English.
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Allergen-specific Fab fragments isolated from combinatorial IgE and IgG libraries are useful tools for studying allergen-antibody interactions. To characterise the interaction between different allergens and antibodies we have created recombinant human phage antibody libraries in the Fab format. Human IgE and IgG libraries have been created from patients allergic to birch pollen or lipase. These libraries have been used to select binders recognising the major birch pollen allergen Bet v 1 and Humicola lanuginosa lipase. A panel of allergen-specific IgE and IgG

antibodies were identified; these were further characterised by allergen binding studies using Biacore and competition studies using human sera and antibodies purified from human sera. Affinities in the nM range were recorded and a competition with human sera for allergen binding was observed. (C) 2004 Elsevier Ltd. All rights reserved.

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
2002:575207 Document No. 137:139379 Chronic lymphocytic leukemia (CLL) cell line CLL-AAT and its use in the prepn. and characterization of anti-CLL antibodies. Bowdish, Katherine S.; McWhirter, John (Alexion Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2002059280 A2 20020801, 35 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US47931 20011210. PRIORITY: US 2000-254113P 20001208.
AB A CLL line, CLL-AAT, and the preparation and characterization of antibodies using said cell line is disclosed. CLL-AAT is derived from a B-CLL primary cell and not established by immortalization with EBV. The cell line is characterized by immunophenotyping and shown to have high expression of IgM, kappa light chain, CD23, CD38, and CD138, moderate expression of CD19 and CD20, and weak expression of IgD and CD5. The cell line was neg. for lambda light chain, CD4, CD8, and CD10. It also recognizes a panel of rabbit scFv antibodies that had been selected for specific binding to primary B-CLL cells. In a further aspect, the CLL-AAT cell line is used to generate monoclonal antibodies useful in the diagnosis and/or treatment of CLL. In a still further aspect, antibodies may be generated by panning antibody libraries using primary CLL cells, or antigens derived therefrom, and further screened and/or characterized using the cell line of the invention. More particularly, 25 synthetic rabbit scFv antibodies specific for CLL are isolated and characterized.

```
=> s peptide
L6      2001942 PEPTIDE

=> s l6 and "HENWPS"
L7            0 L6 AND "HENWPS"

=> s l6 and "FHENWES"
L8            0 L6 AND "FHENWES"

=> s l6 and CD23
L9          308 L6 AND CD23

=> s l9 and "FHENWP"
L10           0 L9 AND "FHENWP"

=> s l9 and "FHENWPT"
L11           0 L9 AND "FHENWPT"

=> s l9 and "p30A"
L12           1 L9 AND "P30A"

=> d l12 cbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
2005:1130891 Document No. 143:399818 CD23-binding peptides
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and peptidomimetics for treatment of autoimmune and inflammatory disorders. Mossalayi, Mohammad Djavad; Moynet, Daniel; Vincendeau, Philippe; Rambert, Jerome; Self, Christopher R. (Universite Bordeaux 2, Fr.). PCT Int. Appl. WO 2005098435 A2 20051020, 59 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2005-IB1133 20050405. PRIORITY: EP 2004-290899 20040405.

AB The invention describes compds. comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compds. of the invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X1-X2-X3-X4-X5-X6-X7-X8, wherein: X1 is Phe, or is absent; X2 is His or Ala; X3 is Glu, Ser, Ala, Asn, Lys, or Cys; X4 is Asn, Phe, Gln, Pro, Ser, or Ala; X5 is Trp; X6 is Pro, Arg, Glu, Gly, Cys, or Lys; X7 is Ser, Pro, Leu, Thr Ala, Gly, Asn, or absent; and X8 is Phe, Gly, or is absent. Treatment of arthritic rats with peptide p30A resulted in remission of the arthritic condition and produced weight gain.

```
=> s CD23 binding peptide
L13          1 CD23 BINDING PEPTIDE

=> s "FHENWPS"
L14         15 "FHENWPS"

=> dup remove l14
PROCESSING COMPLETED FOR L14
L15           3 DUP REMOVE L14 (12 DUPLICATES REMOVED)

=> d l15 1-3 cbib abs
```

L15 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1

2008042890. PubMed ID: 17972282. A recombinant triblock protein polymer with dispersant and binding properties for digital printing. Qi Min; O'Brien John P; Yang Jianjun. (DuPont Central Research and Development, Experimental Station, Wilmington, DE 19880-0402, USA.) Biopolymers, (2008) Vol. 90, No. 1, pp. 28-36. Journal code: 0372525. ISSN: 0006-3525. Pub. country: United States. Language: English.

AB A structured triblock protein was designed to explore the potential of engineered peptides to function as high-performance ink dispersants and binders. The protein consists of three functional elements, including a pigment binding domain, a hydrophilic linker, and a printing surface binding domain. To construct such a chimeric protein, a carbon black binding peptide, FHENWPS, and a cellulose binding peptide, THKTSTQRLLAA, were identified from phage display libraries through biopanning, based on their strong and specific binding affinities to carbon black and cellulose. They were used as carbon black and cellulose binding domains, respectively, in a recombinant triblock protein. A linker sequence, PTPTPTPTPTPTPTPTPTPTP, was adapted from endoglucanase A of the bacterium Cellulomonas fimi, as a small, rigid, and hydrophilic interdomain linker. When incorporated into the triblock structure between the carbon black and cellulose binding sequences, the linker sufficiently isolates these two elements and allows dual binding activity. The

structured triblock protein was shown to disperse carbon black particles and attach it to paper surfaces. Thus, the utility of structured proteins having useful dispersant and binding properties for digital printing inks was demonstrated.
(c) 2007 Wiley Periodicals, Inc.

L15 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 2
2004376428. PubMed ID: 15279884. Peptides binding to a Gb3 mimic selected from a phage library. Miura Yoshiko; Sasao Yuuki; Kamihira Masamichi; Sakaki Akio; Iijima Shinji; Kobayashi Kazukiyo. (Department of Molecular Design and Engineering, Graduate School of Engineering, Nagoya University, Chikusa, Nagoya 464-8603, Japan.. miuray@mol.nagoya-u.ac.jp) . Biochimica et biophysica acta, (2004 Aug 4) Vol. 1673, No. 3, pp. 131-8. Journal code: 0217513. ISSN: 0006-3002. Pub. country: Netherlands. Language: English.
AB Peptides binding to a Gb3 mimic were selected from 12-mer peptide library. The self-assembled monolayer (SAM) of a Gb3 mimic was formed on the gold surface, and biopanning was carried out with the phage display peptide library. After three rounds of biopanning, four individual sequences were obtained from 10 phage clones, and the selected peptides having the specific 7-mer sequence (FHENWPS) showed affinities to the Gb3 mimic as strong as to RCA120. Molecular dynamics calculations suggested that the peptides bound to the Gb3 mimic by hydrophobic interaction and hydrogen bonding formation, and the cooperative interactions played an important role in the recognition. The Stx-1 binding was inhibited by the peptides.

L15 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 3
2001467580. PubMed ID: 11479280. Peptides that mimic Candida albicans-derived beta-1,2-linked mannosides. Jouault T; Fradin C; Dzierszinski F; Borg-Von-Zepelin M; Tomavo S; Corman R; Trinel P A; Kerckaert J P; Poulain D. (Laboratoire de Mycologie Fondamentale et Appliquee, INSERM EPI 9915, Universite de Lille II, Faculte de Medecine H. Warembourg, Pole Recherche, Place Verdun, 59037 Lille Cedex, France.) Glycobiology, (2001 Aug) Vol. 11, No. 8, pp. 693-701. Journal code: 9104124. ISSN: 0959-6658. Pub. country: England: United Kingdom. Language: English.
AB Beta-1,2-linked mannosides from Candida albicans phosphopeptidomannan (PPM) bind to macrophages through a receptor independent from the macrophage alpha-linked mannose receptor and stimulate these cells to secrete immune mediators. Anti-beta-1,2-linked mannoside but not anti-alpha-linked mannoside antibodies produced after immunization with neoglycoproteins protect animals from disseminated candidiasis. In this study, peptides that mimic beta-1,2-linked mannosides were isolated using phage display methodology. A phage library expressing random peptides was panned with an anti-beta-1,2-linked mannoside monoclonal antibody (mAb). After three rounds of biopanning, the isolated phages were able to inhibit recognition of C. albicans by the mAb. Sixty percent of the phages had an identical DNA insert corresponding to the peptide sequence FHENWPS that was recognized specifically by the mAb. Injection of KLH-coupled peptide into mice generated high titers of polyclonal antibodies against C. albicans yeast cell walls. The anti-FHENWPS antibodies bound to C. albicans PPM and were inhibited by soluble beta-1,2-mannotetraose. Together, these data provide evidence for mimotopic activity of the peptide selected by biopanning with the anti-beta-1,2-oligomannoside mAb.

=> s "AcwnCOOH"
L16 0 "ACWNCOOH"

=> s "NW"
L17 31830 "NW"

```
=> s l17 and acylated
L18          8 L17 AND ACYLATED

=> dup remove l18
PROCESSING COMPLETED FOR L18
L19          4 DUP REMOVE L18 (4 DUPLICATES REMOVED)

=> d l19 1-4 cbib abs

L19  ANSWER 1 OF 4  SCISEARCH  COPYRIGHT (c) 2008 The Thomson Corporation  on
     STN
2008:413086  The Genuine Article (R) Number: 271YA. Meal-related changes in
     ghrelin, peptide YY, and appetite in normal weight and overweight children
     . Lomenick, Jefferson P. (Reprint); Clasey, Jody L.; Anderson, James W..
     Univ Kentucky, Div Endocrinol, Dept Pediat, Lexington, KY 40536 USA
     (Reprint); Univ Kentucky, Dept Kinesiol & Hlth Promot, Lexington, KY USA;
     Univ Kentucky, Div Endocrinol & Mol Med, Dept Internal Med, Lexington, KY
     USA. jplome2@email.uky.edu. OBESITY (MAR 2008) Vol. 16, No. 3, pp. 547-552
     . ISSN: 1930-7381. Publisher: NATURE PUBLISHING GROUP, 75 VARICK STREET,
     9TH FLOOR, NEW YORK, NY 10013-1917 USA. Language: English.
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
AB       objective: Ghrelin and peptide YY (PYY) are two gut hormones that
     have effects on appetite. Our objectives were to characterize the
     patterns of secretion of these hormones in response to feeding in
     school-age children and determine whether there were differences between
     normal weight (NW) and overweight (OW) subjects.
          Methods and Procedures: This was a cross-sectional study at one
     tertiary care center. Subjects were 7- to 11-year-old healthy NW
     and OW volunteers recruited from local advertisements. Following an
     overnight fast, the subjects were given a standardized breakfast and lunch
     and had nine hourly blood samples for total ghrelin and total PYY. We
     assessed whether ghrelin and PYY levels changed from the preprandial to
     postprandial state and corresponded to reported hunger/satiety.
          Results: Hunger ratings were similar between the two groups
     throughout the study period. Ghrelin was not suppressed after eating, did
     not rise prior to the next meal, and did not correspond to hunger ratings
     in either group. PYY increased postprandially and decreased preprandially
     in the NW group, but OW children exhibited this pattern for only
     part of the day. PYY levels incompletely corresponded to reported satiety
     in the OW group.
          Discussion: Mixed meal consumption had little effect on ghrelin
     secretion and a variable effect on PYY secretion in young children in our
     study. Differences that were observed between the groups do not suggest
     that an abnormality in their secretion contributes to the development of
     obesity.

L19  ANSWER 2 OF 4     MEDLINE on STN                    DUPLICATE 1
2007106622.    PubMed ID: 17119003.   Regulation of appetite in lean and obese
     adolescents after exercise: role of acylated and desacyl
     ghrelin. Mackelvie Kerry J; Meneilly Graydon S; Elahi Dariush; Wong Alfred
     C K; Barr Susan I; Chanoine Jean-Pierre. (Endocrinology and Diabetes Unit,
     Room K4-212, British Columbia's Children's Hospital, 4480 Oak Street,
     Vancouver, British Columbia, Canada V6H 3V4. ) The Journal of clinical
     endocrinology and metabolism, (2007 Feb) Vol. 92, No. 2, pp. 648-54.
     Electronic Publication: 2006-11-21. Journal code: 0375362. ISSN:
     0021-972X. Pub. country: United States. Language: English.
AB   CONTEXT: Increased physical activity is an integral part of weight loss
     programs in adolescents. We hypothesized that exercise could affect
     appetite-regulating hormones and the subjective desire to eat, which could
     partly explain the poor success rate of the existing interventions.
     OBJECTIVE: The objective of this study was to investigate prospectively
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the effects of exercise on acylated ghrelin (AG) and desacyl ghrelin (DG) concentrations and on appetite. SETTING: The setting for this study was a tertiary care center. PARTICIPANTS: Normal-weight [NW; body mass index (mean +/- se), 20.7 +/- 0.5 kg/m2] and overweight (OW; body mass index, 32.4 +/- 1.7) male adolescents (n = 17/group, age 15.3 +/- 0.2 yr) were studied. INTERVENTION: Those studied participated in 5 consecutive days of aerobic exercise (1 h/d). MAIN OUTCOME: Changes in AG and DG concentrations and in appetite during a test meal were studied. RESULTS: Exercise did not significantly affect insulin sensitivity or body weight. Fasting total (AG and DG) ghrelin concentrations were lower in OW (600 +/- 33 pg/ml) compared with NW (764 +/- 33 pg/ml, P < 0.05) boys and were not affected by exercise. In contrast, there was a differential effect of exercise on both AG and DG (P <or= 0.019). AG significantly increased after exercise, and this increase was greater in NW compared with OW adolescents (P < 0.05). Higher AG concentrations were correlated with an increase in markers of appetite (P < 0.05). CONCLUSION: Exercise differentially affects AG and DG in NW and OW male adolescents. Our data suggest that total ghrelin does not adequately reflect AG and DG concentrations and that the influence of exercise-induced hormonal changes should be considered to ensure success in weight management.

L19 ANSWER 3 OF 4 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
1992:114828 Document No.: PREV199293060628; BA93:60628. PLATINUM-II AND PALLADIUM-II COMPLEXES OF SELECTIVELY ACYLATED 1 2 4 BUTANETRIAMINES. ALTMAN J [Reprint author]; SCHUMANN E; KARAGHIOSOFF K; EICHIN-KARAGHIOSOFF E; BECK W. INST ANORGANISHCEH CHEM, UNIV MUENCHEN, MEISERSTRASSE 1, D-8000 MUENCHEN 2. Zeitschrift fuer Naturforschung Section B Chemical Sciences, (1991) Vol. 46, No. 11, pp. 1473-1488. CODEN: ZNBSEN. ISSN: 0932-0776. Language: ENGLISH.
AB New N1,N2-di-Boc-N4-acyl-1,2,4-butanetriamines 5 (acyl = acetyl, trifluoroacetyl, benzoyl, carboxycyclohexyl, caproyl, carboxycyclobutyl) have been prepared by ring cleavage acylation of Nw-acylated histamines with di-tert-butyl dicarbonate, and reduction with Raney nickel. Free vicinal diamines 6 were generated by acidic removal of Boc-protecting groups and transformed into dichloroplatinum(II) 7 and dichloropalladium(II) complexes 8. By basic treatment of the N1,N2-di-Boc-N4-trifluoroacetyl-1,2,4-butanetriamine 5b the protecting group was removed from the terminal amine to give N1,N2-di-Boc-1,2,4-butanetriamine 9 which forms cis-dichloroplatinum(II) and palladium(II) complexes 10, 11. The compounds have been characterized by IR, NMR (1H, 13C) spectroscopy and elemental analysis, and the structures of the trifluoroacetyl compounds confirmed by 1H 13C and 1H 1H 2D NMR spectroscopy.

L19 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
1973:500451 Document No. 79:100451 Original Reference No. 79:16239a,16242a Site of action of new antiviral amino acid analogs. Seto, Y.; Nakamura, Y.; Shimamura, Y.; Toyoshima, S. (Sch. Med., Keio Univ., Tokyo, Japan). Advan. Antimicrob. Antineoplastic Chemother., Proc. Int. Congr. Chemother., 7th, Meeting Date 1971, Volume 1, Issue 1, 351-3. Editor(s): Hejzlar, Miroslav. Univ. Park Press: Baltimore, Md. (English) 1972. CODEN: 26QZAP.
AB Of 300 new amino acid analogues screened against A2/Adachi, A/NWS , and B/Lee virus strains in chick embryo fibroblast cells and in mice as possible antiinfluenza agents, (N-naphthylaminomethylphenylalanine) (I) [41204-83-5], A-206 (N-lauroylphenylalanine) [14379-64-7], and an unidentified compound were effective against the A2/Adachi strain and in mice. I and A-206 were effective against influenza B virus. These analogues did not inhibit viral absorption or release, and did not inactivate viral infectivity. They may inhibit RNA synthesis in inflected cells.

```
=> s l18 and acetylated
L20           0 L18 AND ACETYLATED

=> s l18 and amidated
L21           0 L18 AND AMIDATED

=> s "FHENWP"
L22          15 "FHENWP"

=> dup remove l22
PROCESSING COMPLETED FOR L22
L23           3 DUP REMOVE L22 (12 DUPLICATES REMOVED)

=> d l23 1-3 cbib abs

L23  ANSWER 1 OF 3     MEDLINE on STN                    DUPLICATE 1
20080042890.    PubMed ID: 17972282.   A recombinant triblock protein polymer
     with dispersant and binding properties for digital printing. Qi Min;
     O'Brien John P; Yang Jianjun. (DuPont Central Research and Development,
     Experimental Station, Wilmington, DE 19880-0402, USA. ) Biopolymers,
     (2008) Vol. 90, No. 1, pp. 28-36.  Journal code: 0372525. ISSN: 0006-3525.
     Pub. country: United States. Language: English.
AB   A structured triblock protein was designed to explore the potential of
     engineered peptides to function as high-performance ink dispersants and
     binders.  The protein consists of three functional elements, including a
     pigment binding domain, a hydrophilic linker, and a printing surface
     binding domain.  To construct such a chimeric protein, a carbon black
     binding peptide, FHENWPS, and a cellulose binding peptide,
     THKTSTQRLLAA, were identified from phage display libraries through
     biopanning, based on their strong and specific binding affinities to
     carbon black and cellulose.  They were used as carbon black and cellulose
     binding domains, respectively, in a recombinant triblock protein.  A
     linker sequence, PTPTPTPTPTPTPTPTPTPTP, was adapted from endoglucanase A
     of the bacterium Cellulomonas fimi, as a small, rigid, and hydrophilic
     interdomain linker.  When incorporated into the triblock structure between
     the carbon black and cellulose binding sequences, the linker sufficiently
     isolates these two elements and allows dual binding activity.  The
     structured triblock protein was shown to disperse carbon black particles
     and attach it to paper surfaces.  Thus, the utility of structured proteins
     having useful dispersant and binding properties for digital printing inks
     was demonstrated.
     (c) 2007 Wiley Periodicals, Inc.

L23  ANSWER 2 OF 3     MEDLINE on STN                    DUPLICATE 2
2004376428.    PubMed ID: 15279884.   Peptides binding to a Gb3 mimic selected
     from a phage library. Miura Yoshiko; Sasao Yuuki; Kamihira Masamichi;
     Sakaki Akio; Iijima Shinji; Kobayashi Kazukiyo. (Department of Molecular
     Design and Engineering, Graduate School of Engineering, Nagoya University,
     Chikusa, Nagoya 464-8603, Japan.. miuray@mol.nagoya-u.ac.jp) . Biochimica
     et biophysica acta, (2004 Aug 4) Vol. 1673, No. 3, pp. 131-8.  Journal
     code: 0217513. ISSN: 0006-3002. Pub. country: Netherlands. Language:
     English.
AB   Peptides binding to a Gb3 mimic were selected from 12-mer peptide library.
     The self-assembled monolayer (SAM) of a Gb3 mimic was formed on the gold
     surface, and biopanning was carried out with the phage display peptide
     library.  After three rounds of biopanning, four individual sequences were
     obtained from 10 phage clones, and the selected peptides having the
     specific 7-mer sequence (FHENWPS) showed affinities to the Gb3
     mimic as strong as to RCA120.  Molecular dynamics calculations suggested
     that the peptides bound to the Gb3 mimic by hydrophobic interaction and
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hydrogen bonding formation, and the cooperative interactions played an important role in the recognition. The Stx-1 binding was inhibited by the peptides.

L23 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 3
2001467580. PubMed ID: 11479280. Peptides that mimic Candida albicans-derived beta-1,2-linked mannosides. Jouault T; Fradin C; Dzierszinski F; Borg-Von-Zepelin M; Tomavo S; Corman R; Trinel P A; Kerckaert J P; Poulain D. (Laboratoire de Mycologie Fondamentale et Appliquee, INSERM EPI 9915, Universite de Lille II, Faculte de Medecine H. Warembourg, Pole Recherche, Place Verdun, 59037 Lille Cedex, France.) Glycobiology, (2001 Aug) Vol. 11, No. 8, pp. 693-701. Journal code: 9104124. ISSN: 0959-6658. Pub. country: England: United Kingdom. Language: English.

AB Beta-1,2-linked mannosides from Candida albicans phosphopeptidomannan (PPM) bind to macrophages through a receptor independent from the macrophage alpha-linked mannose receptor and stimulate these cells to secrete immune mediators. Anti-beta-1,2-linked mannoside but not anti-alpha-linked mannoside antibodies produced after immunization with neoglycoproteins protect animals from disseminated candidiasis. In this study, peptides that mimic beta-1,2-linked mannosides were isolated using phage display methodology. A phage library expressing random peptides was panned with an anti-beta-1,2-linked mannoside monoclonal antibody (mAb). After three rounds of biopanning, the isolated phages were able to inhibit recognition of C. albicans by the mAb. Sixty percent of the phages had an identical DNA insert corresponding to the peptide sequence FHENWPS that was recognized specifically by the mAb. Injection of KLH-coupled peptide into mice generated high titers of polyclonal antibodies against C. albicans yeast cell walls. The anti-FHENWPS antibodies bound to C. albicans PPM and were inhibited by soluble beta-1,2-mannotetraose. Together, these data provide evidence for mimotopic activity of the peptide selected by biopanning with the anti-beta-1,2-oligomannoside mAb.

=> s "HENWS?"
L24 0 "HENWS?"

=> s "HENWGS"
L25 0 "HENWGS"

=> s "FHEQWPS"
L26 0 "FHEQWPS"

=> s "HENWPS"
L27 0 "HENWPS"

=> s "HENWKS"
L28 0 "HENWKS"

=> s "FHEFWPT"
L29 0 "FHEFWPT"

=> s "FHSQWPN"
L30 0 "FHSQWPN"

=> s "HENAPS"
L31 0 "HENAPS"

=> s "HENWES"
L32 0 "HENWES"

=> s "HENWS"

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L33          0 "HENWS"

=> s "FHKPWRA"
L34          0 "FHKPWRA"

=> s "FHEQWPS"
L35          0 "FHEQWPS"

=> s cyclic peptide
L36      16323 CYCLIC PEPTIDE

=> s l36 and CD23
L37          0 L36 AND CD23

=> s l36 and binding CD23
L38          0 L36 AND BINDING CD23

=> s l36 and binding
L39       3847 L36 AND BINDING

=> s l39 and CD23
L40          0 L39 AND CD23

=> s "FHENWPA"
L41          0 "FHENWPA"

=> (mossalayi m?/au or moynet d?/au or vincendeau p?/au or rambert j?/au or self
c?/au)
(MOSSALAYI IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s (mossalayi m?/au or moynet d?/au or vincendeau p?/au or rambert j?/au or self
c?/au)
L42       1291 (MOSSALAYI M?/AU OR MOYNET D?/AU OR VINCENDEAU P?/AU OR RAMBERT
               J?/AU OR SELF C?/AU)

=> s l42 and peptide
L43         86 L42 AND PEPTIDE

=> s l43 and CD23
L44          1 L43 AND CD23

=> d l44 cbib abs

L44  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
2005:1130891   Document No. 143:399818  CD23-binding peptides
     and peptidomimetics for treatment of autoimmune and inflammatory
     disorders.  Mossalayi, Mohammad Djavad; Moynet, Daniel
     ; Vincendeau, Philippe; Rambert, Jerome; Self,
     Christopher R. (Universite Bordeaux 2, Fr.).  PCT Int. Appl. WO
     2005098435 A2 20051020, 59 pp.  DESIGNATED STATES: W:  AE, AG, AL, AM, AT,
     AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK,
     DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
     JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
     MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
     SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
     ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI,
     FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG,
     TR.  (English).  CODEN: PIXXD2.  APPLICATION: WO 2005-IB1133 20050405.
     PRIORITY: EP 2004-290899 20040405.
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AB The invention describes compds. comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compds. of the invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X1-X2-X3-X4-X5-X6-X7-X8, wherein: X1 is Phe, or is absent; X2 is His or Ala; X3 is Glu, Ser, Ala, Asn, Lys, or Cys; X4 is Asn, Phe, Gln, Pro, Ser, or Ala; X5 is Trp; X6 is Pro, Arg, Glu, Gly, Cys, or Lys; X7 is Ser, Pro, Leu, Thr Ala, Gly, Asn, or absent; and X8 is Phe, Gly, or is absent. Treatment of arthritic rats with peptide p30A resulted in remission of the arthritic condition and produced weight gain.

=> s l42 and peptidomimetics
L45 1 L42 AND PEPTIDOMIMETICS

=> d l45 cbib abs

L45 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
2005:1130891 Document No. 143:399818 CD23-binding peptides and peptidomimetics for treatment of autoimmune and inflammatory disorders. Mossalayi, Mohammad Djavad; Moynet, Daniel ; Vincendeau, Philippe; Rambert, Jerome; Self, Christopher R. (Universite Bordeaux 2, Fr.). PCT Int. Appl. WO 2005098435 A2 20051020, 59 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2005-IB1133 20050405. PRIORITY: EP 2004-290899 20040405.
AB The invention describes compds. comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compds. of the invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X1-X2- X3-X4-X5-X6-X7-X8, wherein: X1 is Phe, or is absent; X2 is His or Ala; X3 is Glu, Ser, Ala, Asn, Lys, or Cys; X4 is Asn, Phe, Gln, Pro, Ser, or Ala; X5 is Trp; X6 is Pro, Arg, Glu, Gly, Cys, or Lys; X7 is Ser, Pro, Leu, Thr Ala, Gly, Asn, or absent; and X8 is Phe, Gly, or is absent. Treatment of arthritic rats with peptide p30A resulted in remission of the arthritic condition and produced weight gain.

=> dup remove l43
PROCESSING COMPLETED FOR L43
L46 41 DUP REMOVE L43 (45 DUPLICATES REMOVED)

=> s l46 and autoimmune
L47 7 L46 AND AUTOIMMUNE

=> d l47 1-7 cbib abs

L47 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
2006:243485 Document No.: PREV200600252032. Therapeutic agents and methods of use thereof for the modulation of angiogenesis. Olson, Gary L. [Inventor];

Self, Christopher [Inventor]; Lee, Lily [Inventor]; Cook, Charles Michael [Inventor]; Birktoft, Jens [Inventor]. Mountainside, NJ USA. ASSIGNEE: Praecis Pharmaceuticals, Inc.. Patent Info.: US 06919307 20050719. Official Gazette of the United States Patent and Trademark Office Patents, (JUL 19 2005)
CODEN: OGUPE7. ISSN: 0098-1133. Language: English.

AB The present invention provides methods of treating a parasitic infection, a lymphoid malignancy or an autoimmune disorder in a subject by administering to the subject a therapeutically effective amount of an angiogenesis inhibitor compound comprising a MetAP-2 inhibitory core coupled to a peptide.

L47 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

2005:1130891 Document No. 143:399818 CD23-binding peptides and peptidomimetics for treatment of autoimmune and inflammatory disorders. Mossalayi, Mohammad Djavad; Moynet, Daniel ; Vincendeau, Philippe; Rambert, Jerome; Self, Christopher R. (Universite Bordeaux 2, Fr.). PCT Int. Appl. WO 2005098435 A2 20051020, 59 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2005-IB1133 20050405. PRIORITY: EP 2004-290899 20040405.

AB The invention describes compds. comprising new and useful peptides and peptidomimetics that can bind to CD23. They are capable of reducing inflammatory responses associated with auto-immune diseases, chronic inflammatory diseases, allergies and other inflammatory conditions such as those mediated by the mammalian immune system. Compds. of the invention relate to a CD23-binding peptide wherein said peptide comprises an amino-acid sequence of X1-X2- X3-X4-X5-X6-X7-X8, wherein: X1 is Phe, or is absent; X2 is His or Ala; X3 is Glu, Ser, Ala, Asn, Lys, or Cys; X4 is Asn, Phe, Gln, Pro, Ser, or Ala; X5 is Trp; X6 is Pro, Arg, Glu, Gly, Cys, or Lys; X7 is Ser, Pro, Leu, Thr Ala, Gly, Asn, or absent; and X8 is Phe, Gly, or is absent. Treatment of arthritic rats with peptide p30A resulted in remission of the arthritic condition and produced weight gain.

L47 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

2005:238675 Document No. 142:317077 Preparation of amino acid derivatives as methionine aminopeptidase-2 inhibitors. Olson, Gary L.; Self, Christopher; Lee, Lily; Cook, Charles Michael; Birktoft, Jens; Morgan, Barry; Arico-Muendel, Christopher C. (Praecis Pharmaceuticals Inc., USA). U.S. Pat. Appl. Publ. US 20050059585 A1 20050317, 51 pp., Cont.-in-part of U.S. Ser. No. 138,935. (English). CODEN: USXXCO. APPLICATION: US 2003-429174 20030502. PRIORITY: US 2000-704251 20001101; US 2001-972772 20011005; US 2001-1945 20011101; US 2002-138935 20020502.

AB Compds. A-W-CONR1-Xn-CR3R4-Z-P [A is a Met-AP2 inhibitory core; W = O or NR2; R1, R2 = H or alkyl; X = alkylene or substituted alkylene; n = 0 or 1; R3, R4 = H, (un)substituted alkyl, aryl or heteroaryl; R3R4 = alkylene or R3R4C is a carbocyclic or heterocyclic group; Z = CO or alkylene-CO and P is a peptide comprising 1.apprx.100 amino acid residues attached at its amino terminus to Z or a group OR5 or NR6R7, where R5, R6, R7 are H, (un)substituted alkyl or azacycloalkyl or R6R7N = (un)substituted heterocyclyl; or Z = O, NR8 (R8 is H or alkyl), alkylene-CO or alkylene-NR8 and P is H, alkyl or a peptide comprising 1.apprx.100 amino acid residues attached at its carboxy terminus to Z] were prepared for treating an angiogenic disease, e.g.,

cancer. Title angiogenesis inhibitor compds. have excellent methionine aminopeptidase-2 (MetAP2) inhibitory activity and are able to inhibit endothelial cell growth at the picomolar range. Thus, Q-CO-D-Val-NH2 (Q is the alc. derived from fumagillin) was prepared via amidation reaction and evaluated for inhibition of SR cell proliferation.

L47 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
2003:455053 Document No. 139:7179 Preparation of compounds comprising a methionine aminopeptidase 2 (MetAP-2) inhibitory core coupled to a peptide for modulation of angiogenesis. Olson, Gary L.; Self, Christopher; Lee, Lily; Cook, Charles Michael; Birktoft, Jens; Morgan, Barry; Arico-Muendel, Christopher C. (Praecis Pharmaceuticals Inc., USA). U.S. Pat. Appl. Publ. US 20030109671 A1 20030612, 48 pp., Cont.-in-part of U.S. Ser. No. 1,945. (English). CODEN: USXXCO. APPLICATION: US 2002-138935 20020502. PRIORITY: US 2000-704251 20001101; US 2001-972772 20011005; US 2001-1945 20011101.
AB The invention provides angiogenesis inhibitor compds. A-W-CONR1-Xn-CR3R4-Z-P [A is a Met-AP-2 inhibitory core; W is O or NR2; R1, R2 are H or alkyl; X is alkylene or substituted alkylene; n is 0 or 1; R3, R4 are H, (un)substituted alkyl or (hetero)aryl; or CR3R4 is carbocyclic, heterocyclic, or alkylene; Z is CO or alkylene-CO and P is a peptide comprising 1 to about 100 amino acid residues attached at its amino terminus to Z or a group OR5 or NR6R7, where R5-R7 are H, alkyl, (un)substituted alkyl or azacycloalkyl or NR6R7 is (un)substituted heterocyclyl; or Z is O, NR6 (R8 = H or alkyl), alkylene-O, or alkylene-NR8 and P is H, alkyl or a peptide consisting of 1 to about 100 amino acid residues attached at its carboxy terminus to Z] comprising a MetAP-2 inhibitory core coupled to a peptide, as well as pharmaceutical compns. comprising the angiogenesis inhibitor compds. Thus, (3R,4S,5S,6R)-5-methoxy-4-[(2R, 3R)-2-methyl-3-(3-methylbut-2-enyl)oxiranyl]-1-oxaspiro[2.5]oct-6-ylcarbonyl-L-valine Me ester, prepared by acylation of L-valine Me ester hydrochloride, showed IC50 = 4.7 nM for inhibition of MetAP-2.

L47 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
2002:965105 Document No. 138:33374 Therapeutic agents and methods of use thereof for the modulation of angiogenesis. Olson, Gary L.; Self, Christopher; Lee, Lily; Cook, Charles Michael; Birktoft, Jens (Praecis Pharmaceuticals Inc., USA). U.S. Pat. Appl. Publ. US 20020193298 A1 20021219, 38 pp., Cont.-in-part of U. S. Ser. No. 704,251. (English). CODEN: USXXCO. APPLICATION: US 2001-972772 20011005. PRIORITY: US 2000-704251 20001101.
AB The present invention provides angiogenesis inhibitor compds. comprising a MetAP-2 (methionine aminopeptidase-2)-inhibitory fumagillin core coupled to a peptide, as well as pharmaceutical compns. comprising the angiogenesis inhibitor compds. and a pharmaceutically acceptable carrier. The present invention also provides methods of treating an angiogenic disease, e.g., cancer, in a subject by administering to the subject a therapeutically effective amount of one or more of the angiogenesis inhibitor compds. of the invention.

L47 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
2002:794303 Document No. 137:311201 Preparation of amino acid compounds containing the fumagillin core for the modulation of angiogenesis. Olson, Gary L.; Self, Christopher; Lee, Lily; Cook, Charles Michael; Birktoft, Jens; Morgan, Barry; Arico-muendel, Christopher C. (Praecis Pharmaceuticals Inc., USA). U.S. Pat. Appl. Publ. US 20020151493 A1 20021017, 47 pp., Cont.-in-part of U. S. Ser. No. 972,772. (English). CODEN: USXXCO. APPLICATION: US 2001-1945 20011101. PRIORITY: US 2000-704251 20001101; US 2001-972772 20011005.
AB Compds. A-W-CONR1-Xn-CR3R4-Z-P [A is a Met-AP2 inhibitory core; W = O or NR2; R1, R2 = H or alkyl; X = alkylene or substituted alkylene; n = 0 or

1; R3, R4 = H, (un)alkyl, aryl or heteroaryl; R3R4 = alkylene or R3R4C is a carbocyclic or heterocyclic group; Z = CO or alkylene-CO-; P is a peptide comprising 1.apprx.100 amino acid residues attached at its amino terminus to Z or a group OR5 or NR6R7, where R5, R6, R7 are H, (un)substituted alkyl or azacycloalkyl or R6R7N = (un)substituted heterocyclyl; or Z = O, NR8, alkylene-O, alkylene-NR8, where R8 = H or alkyl and P = H, alkyl, or a peptide] were prepared for treating an angiogenic disease, e.g., cancer. Title angiogenesis inhibitor compds. have excellent MetAP2 inhibitory activity and are able to inhibit endothelial cell growth at the picomolar range. Thus, Q-CO-D-Val-Me (Q is the alc. derived from fumagillin) was prepared via amidation reaction and showed IC50 = 4.7 nM in MetAP2 assay.

L47 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
2002:408668 Document No. 136:402029 Preparation of amino acid compounds containing the fumagillin core for the modulation of angiogenesis. Olson, Gary L.; Self, Christopher; Lee, Lily; Cook, Charles Michael; Birktoft, Jens (Praecis Pharmaceuticals Inc., USA). PCT Int. Appl. WO 2002042295 A2 20020530, 98 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US46086 20011101. PRIORITY: US 2000-704251 20001101; US 2001-972772 20011005.

AB Compds. A-W-CONR1-Xn-CR3R4-Z-P [A is a Met-AP2 inhibitory core; W = O or NR2; R1, R2 = H or alkyl; X = alkylene or substituted alkylene; n = 0 or 1; R3, R4 = H, (un) alkyl, aryl or heteroaryl; R3R4 = alkylene or R3R4C is a carbocyclic or heterocyclic group; Z = CO or alkylene-CO-; P is a peptide comprising 1.apprx.100 amino acid residues attached at its amino terminus to Z or a group OR5 or NR6R7, where R5, R6, R7 are H, (un)substituted alkyl or azacycloalkyl or R6R7N = (un)substituted heterocyclyl] were prepared for treating an angiogenic disease, e.g., cancer. Title angiogenesis inhibitor compds. have excellent MetAP2 inhibitory activity and are able to inhibit endothelial cell growth at the picomolar range. Thus, Q-CO-D-Val-Me (Q is the alc. derived from fumagillin) was prepared via amidation reaction and showed IC50 = 4.7 nM in MetAP2 assay.

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L2           0 L1 AND "AC-W-N-COOH"

=> s l1 and "WN"
L3           0 L1 AND "WN"

=> s l1 and "acetyl-amino-indoylbutyric acid"
L4           0 L1 AND "ACETYL-AMINO-INDOYLBUTYRIC ACID"

=> s l1 and butyric acid
L5           0 L1 AND BUTYRIC ACID

=> s l1 and indoyl
L6           0 L1 AND INDOYL
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=> s l1 and "HENWPS"
L7            0 L1 AND "HENWPS"

=> s l1 and AcwnCOOH
L8            0 L1 AND ACWNCOOH

=> s l1 and aceytyl-arginine-tryptophan
L9            0 L1 AND ACEYTYL-ARGININE-TRYPTOPHAN

=> s l1 and peptidomimetics
L10           0 L1 AND PEPTIDOMIMETICS

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L12           0 L1 AND "FHENWPS"

=> s l1 and HENWS
L13           0 L1 AND HENWS

=> s l1 and peptide
L14         135 L1 AND PEPTIDE

=> s l14 and "FHEQWPS"
L15           0 L14 AND "FHEQWPS"

=> s l14 and di-peptide
L16           0 L14 AND DI-PEPTIDE

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2008:285817   Document No. 148:306411  CC chemokine receptor 2 inhibitors for
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     2008027377 A1 20080306, 102pp.  DESIGNATED STATES: W:  AE, AG, AL, AM, AT,
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     DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU,
     ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,
     LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
     PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,
     TN, TR, TT, TZ; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES,
     FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, PT, SE, SN,
     TD, TG, TR.  (English).  CODEN: PIXXD2.  APPLICATION: WO 2007-US18914
     20070829.  PRIORITY: US 2006-841140P 20060829.

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Iacob, Stanca; Veis, Arthur (correspondence). Northwestern University, Feinberg School of Medicine, Chicago, IL 60611, United States. aveis@northwestern.edu.
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Refs: 28.
ISSN: 8756-3282. CODEN: BONEDL
S 8756-3282(08)00070-7. Pub. Country: United States. Language: English.
Summary Language: English.
Entered STN: 20080606. Last Updated on STN: 20080606

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Akula, Kiran Kumar; Dhir, Ashish; Kulkarni, S.K. (correspondence). Pharmacology Division, University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India. skpu@yahoo.com.
European Journal of Pharmacology Vol. 587, No. 1-3, pp. 129-134 10 Jun 2008.
Refs: 38.
ISSN: 0014-2999. CODEN: EJPHAZ
S 0014-2999(08)00378-6. Pub. Country: Netherlands. Language: English.
Summary Language: English.
Entered STN: 20080716. Last Updated on STN: 20080716

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